

AMENDMENT AND RESPONSE

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Serial No.: 10/673,739

Filing Date: September 29, 2003

Attorney Docket No. 100.147US02

Title: MECHANICAL HOUSING

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (Currently amended) An apparatus for containing and cooling objects comprising:
a cage formed of generally non-thermally conductive a material having a first thermal property, the cage comprising:
 - at least one first aperture;
 - at least one second aperture exposing at least a portion of a case and different than the first aperture;
 - wherein the case is formed of thermally conductive a material having a second, different thermal property, the case[,] is partially within the cage, and is accessible to objects through the at least one first aperture;
 - at least one heat sink thermally coupled to the case through the at least one second aperture; and
 - at least one cover for sealing the at least one first aperture;
 - wherein one or more of the objects thermally coupled to the case will transfer heat to the case, through the second aperture, to the heat sink;
 - wherein the at least one heat sink protrudes ~~though~~ through the at least one second aperture to thermally couple to the case.
2. (Cancelled)
3. (Original) The apparatus of claim 1 further comprising a conductive thermal path between the at least one case and the at least one heat sink.
4. (Currently amended) The apparatus of claim 1 wherein the cage is made of a generally non-thermally conductive material from the following group: nylon, plastic, ABS, or combinations thereof ~~and structural foam~~.

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5. (Original) The apparatus of claim 1 further comprising a base.
6. (Original) The apparatus of claim 1 wherein the at least one heat sink includes fins.
7. (Original) The apparatus of claim 1 wherein the at least one case comprises one of the following thermally conductive materials: aluminum, copper, bronze, or combinations thereof.
8. (Original) The apparatus of claim 1 wherein the at least one heat sink comprises one of the following thermally conductive materials: aluminum, copper, bronze, or combinations thereof.
9. (Currently amended) An apparatus for containing and cooling objects comprising:
a cage formed of generally non-thermally conductive a material having a first thermal conductivity property, the cage comprising:
at least one first aperture;
at least one second aperture exposing at least a portion of a case and different than the first aperture;
wherein the case is formed of thermally conductive a material having a second, higher thermal conductivity property, the case[,] is partially within the cage, and is accessible to objects through the at least one first aperture;
at least one heat sink thermally coupled to the case through the at least one second aperture; and
at least one cover for sealing the at least one first aperture;
wherein one or more of the objects thermally coupled to the case will transfer heat to the case, through the second aperture, to the heat sink;
wherein the at least one case heat sink protrudes through through the at least one second aperture to thermally couple to the at least one case heat sink.

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10. (Original) The apparatus of claim 9 further comprising a conductive thermal path between the at least one case and the at least one heat sink.
11. (Currently amended) The apparatus of claim [1]9 wherein the cage is made of a generally non-thermally conductive material from the following group: nylon, plastic, ABS, or combinations thereof ~~and structural foam~~.
12. (Currently amended) The apparatus of claim [1]9 further comprising a base.
13. (Currently amended) The apparatus of claim [1]9 wherein the at least one heat sink includes fins.
14. (Currently amended) The apparatus of claim [1]9 wherein the at least one case comprises one of the following thermally conductive materials: aluminum, copper, bronze, or combinations thereof.